

## Farm and Ranch.

Over 100 cars of grain have been shipped from Garland, Texas, this season.

The first bale of cotton to reach Galveston this season was sold for 10 cents—Ex.

Some farmers in Ellis county, Texas, report the appearance of the Mexican weevil.

Quantities of peaches are being shipped from Carlsbad, N. M.—Carlsbad Current.

The streets of Durant, I. T., are crowded every day with wagons loaded with wheat and oats—Ex.

A Mr. McMahon of near Forney, Texas, will raise nearly 1000 bushels of onions this season.—Pecos Times.

The Dallas News at Dallas was sent a watermelon by the Fruit Growers' association at Mineola that weighed 79 pounds.—Ex.

Cameron, I. T., has shipped 251,000 bushels, or forty-nine cars of Irish potatoes, at an average price of 40 cents per bushel.—Ex.

What-a-ton county, Texas, is rapidly developing as a fruit country. Apples, pears, plums and peaches do well there.—Fort Worth Register.

The hog-raiser should strive for the greatest possible daily increase in weight, every day, from birth of pig until his immolation upon the block.

The recent flood struck a watermelon patch near Cuero and juicy melons by the wagonload floated to that city. All colors of mankind were represented in the feast that followed.—Bonham News.

James N. Bush, near Allen, Texas, threshed this season 2400 bushels of wheat and 500 bushels of oats. His wheat yielded seventeen and one-half bushels per acre and oats fifty bushels per acre.—Cleburne Herald.

Farmers should prepare to fight the boll worm as recommended by Prof. Malley in Farm and Ranch of July 15th. County papers would be doing the farmers service by reproducing that article in full.—Farm & Ranch.

The war department, we are informed, wants 4000 bronchos for Gen. Ois. These animals will be purchased and shipped from San Francisco. Before these animals reach the Philippine islands the fishes of the Pacific will know how horse meat tastes.—Ex.

The razor-back hog is out of date, because he is slow as a money-maker. He is a superb rustler, and in health and activity he is unexcelled; he fattens slowly, but accumulates flesh in such just proportions of fat and lean, that his bacon is unexcelled.—Ex.

Farmers in the vicinity of Thatcher, Arizona, have cut and threshed their grain and are now engaged in planting corn on the same land that they cut grain off of a few days ago. Farming is profitable when two crops can be raised in one season on the same piece of land.—Tucson Citizen.

The Grayson county, Texas, oat crop is turning out much better in some sections than in others. It seems that the later sowing of oats is yielding the better crop. The earlier sowing did not make so good a stand as the crop sown later with these was more moisture, and in consequence the oats came up a poorer stand.—Denison Herald.

The use of commercial fertilizers alone will impoverish any soil by gradually working out of it the humus, in combination with green manuring or barnyard manures they may be used profitably; but the surest plan is to so rotate crops as to prevent loss of plant food. Cowpeas are the best plant for this purpose in the south.—Ex.

During the year 1898 more than \$900,000,000 were paid to American dairymen for the products of the cow other than beef. This makes dairying easily the most important industry in the country. How much of this immense sum was earned by Texas cows, for lack of statistics, we cannot determine, but it is certainly not 10 percent of what it may be made.—Ex.

Experiments made at the New Hampshire experiment station give the cost of raising a calf to the age of thirteen months at \$28.31. This includes only five months pasture at \$2. On a Texas farm we would pasture the calf all the year except the roughest weather, when we would have some good hay for it and it would hardly know the difference in seasons. As soon as it was old enough to eat grass we would give it all it could eat; and the cost would be about eight dollars. Then we would graze it a few months longer, and then feed it cotton seed meal and hulls, about \$1.50 worth, and sell it at 1000 pounds weight at \$4 cents, and call it \$35 profit, and if we had enough of that sort, we would think we were doing pretty well ourselves.—Farm and Ranch.

### A HUNDRED MILES AN HOUR.

#### Inventions That Will Revolutionize Transportation Systems.

Inventions which, it is claimed, are destined to revolutionize all existing methods of transportation have recently been perfected by Gordon J. Scott of this city, says the Philadelphia Record. They consist of electrical apparatus which, the inventor declares, increase the speed of an average train of cars to over 100 miles an hour, cause the cars to ride much more easily than any system now in use and save the operating company at least 30 per cent of expense.

One of these machines is a new motor, which involves at least a dozen patented inventions, and includes discoveries alleged to be of so startling a nature that they have not been equaled in international importance or interest since the invention of the telephone. The most advantageous feature of the motor is the fact that it is not connected directly with the gearing, but propels the latter indirectly by means of an electro magnetic driver and controller, a flexible connection existing between the axle and the gearing,

which allows the spring supported wheels of the car to move in any direction, with relation to the gearing, thus preventing all jarring and jolting while the car is in motion.

This controller is also adapted to govern another unique creation in the field of electrical engineering, namely, a single phase, alternating current motor, which is load starting and runs at a variable speed. It is the only motor of its kind in existence, and in perfecting it Mr. Scott has developed an entirely new principle. It is an induction director, impracticable, causing motion to be established and power developed by means of the opposition of an induced current of electricity for the magnetic field which induces it.

Possibly the most remarkable discovery of all is one that has resulted in what Mr. Scott terms the gaso-electric system of propulsion. The term gaso-electric is derived from the fact that in this system a gasoline engine and the electro-magnetic driver and controller are jointly employed. The length of the road which can be operated with this system and absolutely without power stations of any kind, is unlimited.

The motor, which is known as the direct current railway motor, is fastened to the truck and geared to each axle in such a manner that the car may be started or stopped with such ease and smoothness that its motion has either begun or ceased. In fact, its effect upon the running of a car is analogous to the effect of rubber tires upon the wheels of a cab. The motor is so constructed that no metal comes in contact with other metal except the wheels of the car upon the track. As a result there is no friction.

Its most peculiar feature is the fact that in exact opposition to the motor now in use, the new one runs continuously from one end of the trip to the other. The car itself, however, is stopped or started by means of the electro-magnetic driver and controller.

These motors are adapted for street railways, long distance railroads, steamboat propulsion, horseless carriages and may be used to great advantage for heating and lighting purposes, and one of their principal advantages lies in the electro-magnetic driver and controller, which is now in active operation in this city. It is attached to a trolley car running on a loop line in one of the suburbs. The motor itself is much smaller and lighter than the ones now generally in use, and yet develops, at a speed of but four to five hundred revolutions per minute, from 120 to 150 horse-power, as opposed to the 32 horse-power developed by the combined force of the two motors with which nearly every trolley car in the country is now equipped.

The new street cars to be used on the interurban line between St. Paul and Stillwater will be unique in their equipment. They will have compressed air for brakes and whistles, to be supplied by a small motor operating an air pump. The air whistle will be used in the country, where the cars will be run at a high rate of speed. Each car also will be equipped with a telephone, with 50 feet of wire and a switch plug. At intervals of a quarter of a mile there will be a place where the conductor can cut in on the telephone wire between St. Paul and Stillwater and communicate with the power house or car barn.

The cost of Solomon's temple has been estimated by an eminent Old Testament student to exceed \$50,000,000,000. In the first place, the value of the materials in the rough is estimated at \$12,500,000,000, and the labor as \$3,000,000,000. The vessels of gold were valued at \$2,328,481,015; the vessels of silver at \$3,231,715,000; the vestments of the priests and the robes of the singers at \$110,050,000, and the trumpets of gold at \$1,000,000.

The gray-haired man is being pushed to the wall everywhere. During a discussion in a London board of works one of the members stated that he had been assured by a local hair-dye seller that the enormous majority of his customers were workmen, who dyed their hair to secure employment, and to retain it when obtained.

The chief burgess of West Chester, Pa., proposed a fine of \$2, or 24 hours in jail, to each of seven or young men who were brought before him charged with corner-loading. At \$2 per loaf the sport is expensive, but the fines were all paid and the borough enriched accordingly.

**A GOLDEN DISCOVERY.**  
The famous Klondike region is not all gold. Hundreds of prospectors drop and die of hunger and fatigue without ever finding the precious metal. Often the most precious things of life are found only after infinite exertion and discouraging search. Many a man and woman looking vainly for health almost drops by the wayside before the golden means of relief is at last discovered.

"About twelve years ago," says Dr. S. J. Penhaver, Esq., of Mount Union, Huntington Co., Pa., "I was suddenly taken with a pain in the pit of my stomach which was so severe that I could not walk straight. It would grow more severe until it caused waterbrash and vomiting of a slimy yellow matter. I consulted a physician and he told me I had a form of dyspepsia, and treated me for about six months with but little benefit. I still kept getting so weak I could scarcely walk."

"I then tried another physician and he told me my liver was out of order and that I had indigestion. He gave me a treatment and I got some better but only for a short time. I then tried another one who said I had chronic gastritis, ulceration of the lining of the stomach, torpid liver and kidney affection. He treated me for more than a year and I felt much better but it did not last."

"I then took to using several widely advertised patent medicines, while using I then tried Dr. Pierce's medicines, using his 'Golden Medical Discovery' and the 'Pleasant Pellets.' In two months' time I was feeling better than I had for years before. I can truthfully say Dr. Pierce's medicines did me more good than any I had ever taken."

If you are one of those discouraged ones in the long and weary search for health, write to Dr. R. V. Pierce, of Buffalo, N. Y. He will send you friendly advice that will not cost you one cent.

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